

## Federal Communications Commission

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### § 73.805 Availability of channels.

Except as provided in § 73.220 of this chapter, all of the frequencies listed in § 73.201 of this chapter are available for LPFM stations.

### § 73.807 Minimum distance separation between stations.

Minimum separation requirements for LP100 and LP10 stations, as defined in §§ 73.811 and 73.853, are listed in the following paragraphs. An LPFM station will not be authorized unless these separations are met. Minimum distances for co-channel and first-adjacent channel are separated into two columns. The left-hand column lists the required minimum separation to protect other stations and the right-hand column lists (for informational purposes only) the minimum distance necessary for the LPFM station to receive no interference from other stations assumed to be operating at the maximum permitted facilities for the station class. For second- and third-adjacent channels and IF channels, the required minimum distance separation is sufficient to avoid interference received from other stations.

(a)(1) An LP100 station will not be authorized initially unless the minimum distance separations in the following table are met with respect to authorized FM stations, applications for new and existing FM stations filed prior to the release of the public notice announcing an LPFM window period for LP100 stations, authorized LP100 stations, LP100 station applications that were timely-filed within a previous window, and vacant FM allotments. LP100 stations are not required to protect LP10 stations. LPFM modification applications must either meet the distance separations in the following table or, if short-spaced, not lessen the spacing to subsequently authorized stations.

Station class protected by LP100	Co-channel minimum separation (km)		First-adjacent channel minimum separation (km)		Second- and third-adjacent channel minimum separation (km)	I.F. channel minimum separations
	Required	For no interference received from max. class facility	Required	For no interference received from max. class facility	Required	10.6 or 10.8 MHz
LP100 .....	24	24	14	14	None	None
D .....	24	24	13	13	6	3
A .....	67	92	56	56	29	6
B1 .....	87	119	74	74	46	9
B .....	112	143	97	97	67	12
C3 .....	78	119	67	67	40	9
C2 .....	91	143	80	84	53	12
C1 .....	111	178	100	111	73	20
C0 .....	122	193	111	130	84	22
C .....	130	203	120	142	93	28

(2) LP100 stations must satisfy the second-adjacent channel minimum distance separation requirements of paragraph (a)(1) of this section with respect to any third-adjacent channel FM station that, as of September 20, 2000 (the adoption date of this *MO&O*) broadcasts a radio reading service via a sub-carrier frequency.

(b)(1) An LP10 station will not be authorized unless the minimum distance separations in the following table are met with respect to authorized FM stations, applications for new and existing FM stations filed prior to the release of the public notice announcing an LPFM window period for LP10 stations, vacant FM allotments, or LPFM stations.

Station class protected by LP10	Co-channel minimum separation (km)		First-adjacent channel minimum separation (km)		Second- and third-adjacent channel minimum separation (km)	I.F. Channel minimum separations
	Required	For no interference received from max. class facility	Required	For no interference received from max. class facility	Required	10.6 or 10.8 MHz
LP100 .....	16	22	10	11	None	None
LP10 .....	13	13	8	8	None	None
D .....	16	21	10	11	6	2
A .....	59	90	53	53	29	5
B1 .....	77	117	70	70	45	8
B .....	99	141	91	91	66	11
C3 .....	69	117	64	64	39	8
C2 .....	82	141	77	81	52	11
C1 .....	103	175	97	108	73	18
C0 .....	114	190	99	127	84	21
C .....	122	201	116	140	92	26

(2) LP10 stations must satisfy the second-adjacent channel minimum distance separation requirements of paragraph (b)(1) of this section with respect to any third-adjacent channel FM station that, as of September 20, 2000 (the adoption date of this *MO&O*) broadcasts a radio reading service via a sub-carrier frequency.

LP100 and Class LP10 stations in paragraphs (a) and (b) of this section, new LP100 and LP10 stations will not be authorized in Puerto Rico or the Virgin Islands unless the minimum distance separations in the following tables are met with respect to authorized or proposed FM stations:

(c) In addition to meeting or exceeding the minimum separations for Class

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(1) LP100 stations in Puerto Rico and the Virgin Islands:

Station class protected by LP100	Co-channel minimum separation (km)		First-adjacent channel minimum separation (km)		Second- and third-adjacent channel minimum separation (km)—required	I.F. channel minimum separations—10.6 or 10.8 MHz
	Required	For no interference received from max. class facility	Required	For no interference received from max. class facility		
A .....	80	111	70	70	42	9
B1 .....	95	128	82	82	53	11
B .....	138	179	123	123	92	19

(2) LP10 stations in Puerto Rico and the Virgin Islands:

Station class protected by LP100	Co-channel minimum separation (km)		First-adjacent channel minimum separation (km)		Second- and third-adjacent channel minimum separation (km)—required	I.F. channel minimum separations—10.6 or 10.8 MHz
	Required	For no interference received from max. class facility	Required	For no interference received from max. class facility		
A .....	72	108	66	66	42	8
B1 .....	84	125	78	78	53	9
B .....	126	177	118	118	92	18

NOTE TO PARAGRAPHS (a), (b), AND (c): Minimum distance separations towards “grandfathered” superpowered Reserved Band stations are as specified.

Full service FM stations operating within the reserved band (Channels 201–220) with facilities in excess of those permitted in § 73.211(b)(1) or § 73.211(b)(3) shall be protected by LPFM stations in accordance with the minimum distance separations for the nearest class as determined under § 73.211. For example, a Class B1 station operating with facilities that result in a 60 dBu contour that exceeds 39 kilometers but is less than 52 kilometers would be protected by the Class B minimum distance separations. Class D stations with 60 dBu contours that exceed 5 kilometers will be protected by the Class A

minimum distance separations. Class B stations with 60 dBu contours that exceed 52 kilometers will be protected as Class C1 or Class C stations depending upon the distance to the 60 dBu contour. No stations will be protected beyond Class C separations.

(d) In addition to meeting the separations (a) through (c), LPFM applications must meet the minimum separation requirements with respect to authorized FM translator stations, cutoff FM translator applications, and FM translator applications filed prior to the release of the Public Notice announcing the LPFM window period:

(1) LP100 stations:

Distance to FM translator 60 dBu contour	Co-channel minimum separation (km)		First-adjacent channel minimum separation (km)		Second- and third-adjacent channel minimum separation (km) required	I.F. Channel minimum separation (km) 10.6 or 10.8 MHz
	Required	For no interference received	Required	For no interference received		
13.3 km or greater .....	39	67	28	35	21	5
Greater than 7.3 km, but less than 13.3 km .....	32	51	21	26	14	5
7.3 km or less .....	26	30	15	16	8	5

(2) LP10 Stations:

Distance to FM translator 60 dBu contour	Co-channel minimum separation (km)		First-adjacent channel minimum separation (km)		Second- and third-adjacent channel minimum separation (km) required	I.F. Channel minimum separation (km) 10.6 or 10.8 MHz
	Required	For no interference received	Required	For no interference received		
13.3 km or greater .....	30	65	25	33	20	3
Greater than 7.3 km, but less than 13.3 km .....	24	49	18	23	14	3
7.3 km or less .....	18	28	12	14	8	3

(e) Existing Class LP100 and LP10 stations which do not meet the separations in paragraphs (a) through (e) of this section may be relocated provided that the separation to any short-spaced station is not reduced.

(f) Commercial and noncommercial educational stations authorized under subparts B and C of this part, as well as new or modified commercial FM allot-

ments, are not required to adhere to the separations specified in this rule section, even where new or increased interference would be created.

(g) *International considerations within the border zones.* (1) Within 320 km of the Canadian border, LP100 stations must meet the following minimum separations with respect to any Canadian stations:

Canadian station class	Co-channel (km)	First-adjacent channel (km)	Second-adjacent channel (km)	Third-adjacent channel (km)	Intermediate frequency (IF) channel (km)
A1 & Low Power .....	45	30	21	20	4
A .....	66	50	41	40	7
B1 .....	78	62	53	52	9
B .....	92	76	68	66	12
C1 .....	113	98	89	88	19
C .....	124	108	99	98	28

(2) Within 320 km of the Mexican border, LP100 stations must meet the fol-

lowing separations with respect to any Mexican stations:

Mexican station class	Co-channel (km)	First-adjacent channel (km)	Second-adjacent channel (km)	Intermediate frequency (IF) channel (km)
Low Power .....	27	17	9	3
A .....	43	32	25	5
AA .....	47	36	29	6
B1 .....	67	54	45	8
B .....	91	76	66	11
C1 .....	91	80	73	19
C .....	110	100	92	27

(3) Within 320 km of the Canadian border, LP10 stations must meet the

following minimum separations with respect to any Canadian stations:

Canadian station class	Co-channel (km)	First-adjacent channel (km)	Second-adjacent channel (km)	Third-adjacent channel (km)	Intermediate frequency (IF) channel (km)
A1 & Low Power .....	33	25	20	19	3
A .....	53	45	40	39	5
B1 .....	65	57	52	51	8
B .....	79	71	67	66	11
C1 .....	101	93	88	87	18
C .....	111	103	98	97	26

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(4) Within 320 km of the Mexican border, LP10 stations must meet the fol-

lowing separations with respect to any Mexican stations:

Mexican station class	Co-channel (km)	First-adjacent channel (km)	Second-third adjacent channel (km)	Intermediate frequency (IF) channel (km)
Low Power .....	19	13	9	2
A .....	34	29	24	5
AA .....	39	33	29	5
B1 .....	57	50	45	8
B .....	79	71	66	11
C1 .....	83	77	73	18
C .....	102	96	92	26

(5) The Commission will notify the International Telecommunications Union (ITU) of any LPFM authorizations in the US Virgin Islands. Any authorization issued for a US Virgin Islands LPFM station will include a condition that permits the Commission to modify, suspend or terminate without right to a hearing if found by the Commission to be necessary to conform to any international regulations or agreements.

(6) The Commission will initiate international coordination of a LPFM proposal even where the above Canadian and Mexican spacing tables are met, if it appears that such coordination is necessary to maintain compliance with international agreements.

[65 FR 7640, Feb. 15, 2000, as amended at 65 FR 67299, Nov. 9, 2000; 65 FR 79779, Dec. 20, 2000; 66 FR 23863, May 10, 2001]

### § 73.808 Distance computations.

For the purposes of determining compliance with any LPFM distance requirements, distances shall be calculated in accordance with § 73.208(c) of this part.

### § 73.809 Interference protection to full service FM stations.

(a) If a full service commercial or NCE FM facility application is filed subsequent to the filing of an LPFM station facility application, such full service station is protected against any condition of interference to the direct reception of its signal caused by such LPFM station that operates on the same channel, first-adjacent channel or intermediate frequency (IF) channel as or to such full service station, provided that the interference is predicted to occur and actually occurs within:

(1) The 3.16 mV/m (70 dBu) contour of such full service station;

(2) The community of license of such full service station; or

(3) Any area of the community of license of such full service station that is predicted to receive at least a 1 mV/m (60 dBu) signal. Predicted interference shall be calculated in accordance with the ratios set forth in § 73.215 paragraphs (a)(1) and (a)(2). Intermediate frequency (IF) channel interference overlap will be determined based upon overlap of the 91 dBu F(50,50) contours of the FM and LPFM stations. Actual interference will be considered to occur whenever reception of a regularly used signal is impaired by the signal radiated by the LPFM station.

(b) An LPFM station will be provided an opportunity to demonstrate in connection with the processing of the commercial or NCE FM application that interference as described in paragraph (a) of this section is unlikely. If the LPFM station fails to so demonstrate, it will be required to cease operations upon the commencement of program tests by the commercial or NCE FM station.

(c) Complaints of actual interference by an LPFM station subject to paragraphs (a) and (b) of this section must be served on the LPFM licensee and the Federal Communications Commission, attention Audio Services Division. The LPFM station must suspend operations within twenty-four hours of the receipt of such complaint unless the interference has been resolved to the satisfaction of the complainant on the basis of suitable techniques. An LPFM station may only resume operations at the direction of the Federal Communications Commission. If the